SUPPLEMENTAL MATERIAL

SUPPLEMENTAL FIGURE LEGENDS

<u>Supplemental Figure 1</u>. Pulmonary vacular leakage in LPS-treated WT and FAST $^{-}$ mice. (A) The concentration of total protein in the BAL fluid from untreated and LPS-treated mice. Means \pm SEM are shown (n=7). Black bars represent WT mice and white bars represent FAST $^{-/-}$ mice. (B) Representative Diff-quick stained cytospins of LPS-recruited BAL cells (magnification: 63x). Arrow points to a neutrophil and arrowhead points to a red cell. *P < 0.05.

Supplemental Figure 2. Quantification of FAST mRNA levels in neutrophils and lung. Relative levels of FAST mRNA in lung and BM neutrophils from WT and FAST mice, were measured by SYBR Green based real time quantitative PCR assay (see Materials and Methods for details).

Supplemental Figure 3. Chemotaxis in FAST^{-/-} neutrophils. BM neutrophils isolated from WT and FAST^{-/-} mice were exposed to 1 μ M fMLP in a chemotactic chamber EZ-TAXIScan and single motile cells were tracked for 20 minutes with frames taken every 30 seconds. Parameters of motility such as average migration speed, directionality and upward directionality are shown. Results are mean \pm SEM of n=20 cells for each group from 3 different movie sequences. Black bars represent WT mice and white bars represent FAST^{-/-} mice. *P < 0.05.

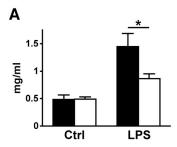
<u>Supplemental Figure 4.</u> ROS production by FAST^{-/-} neutrophils. WT and FAST^{-/-} thioglycollate-elicited peritoneal neutrophils were activated with zymosan for the indicated times and ROS production was measured using luminol-dependent

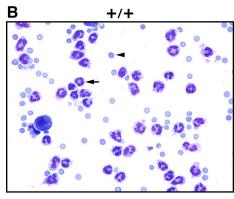
chemiluminescence. RLU, relative light units. Black squares represent WT mice and white squares represent FAST^{-/-} mice.

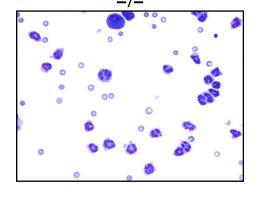
Supplemental Figure 5. Analysis of engraftment efficiency in transplanted mice. PCR Analysis of engraftment efficiency using blood DNA from some of the transplanted mice in Figure 7. Primers MSG128 and MSG129 amplified a WT band (384 bp) and primers MSG105 and MSG133 amplified a KO band (669 bp). Primer sequences are provided in Supplemental Table I. Tail DNA was used for PCR genotyping of recipient mice. Numbers in this figure were used in the identification of the mice.

Supplemental Figure 6. TNF- α levels in BAL fluid of LPS-treated chimeric mice. TNF- α levels were tested in the BAL fluid of mice in Figure 7. *P < 0.05; **P < 0.01.

Supplemental Figure 1 Simarro, et al.

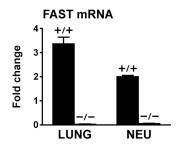






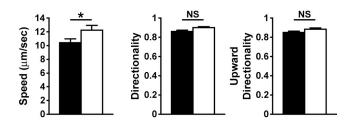
Supplemental Figure 2

Simarro, et al.

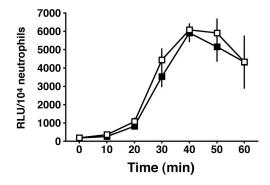


Supplemental Figure 3

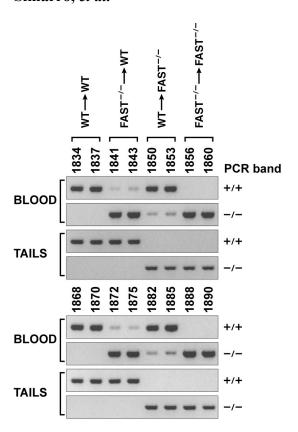
Simarro, et al.



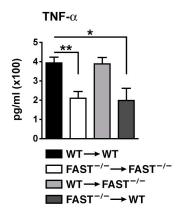
<u>Supplemental Figure 4</u> Simarro, *et al*.



<u>Supplemental Figure 5</u> Simarro, *et al.*



Supplemental Figure 6 Simarro, et al.



Supplemental Table I Simarro, et al.

Primers used in this study.

	NAME	GENE	geneID	RefSeq		PRIMER SEQ
MSG 76	NOTI 5 ARM sense			NT_165760	genomic	TATAGCGGCCGCGCTATGTCACCATACTTAGCC
MSG 77	SALI 5 ARM antisense			NT_165760	genomic	TATAGTCGACGCCACCGAGTCCGCCATCTT
MSG 105	KO sense				cloning vector	cloning vector CTCGAGGTCGACGGTATCGATA
MSG 128	WT sense			NT_165760	genomic	GTGAATGACCTCAGGCTTAAC
MSG 129	WT antisense			NT_165760	genomic	AGAGGGGATTCGAAGCAT
MSG 133	KO antisense			NT_165760	genomic	AATCTTCACTGAGCGAGAAATG
MSG 151	GAPDH sense	GAPDH	14433	NM_008084	transcript	CATGACCACAGTCCATGCCATCACT
MSG 152	GAPDH antisense	GAPDH	14433	NM_008084	transcript	TGAGGTCCACCACCTGTTGCTGTA
MSG 287	b-actin sense	Actb	11461	NM_007393	transcript	GACATGGAGAAGATCTGGCA
MSG 288	b-actin antisense	Actb	11461	NM_007393	transcript	GGTCTCAAACATGATCTGGGT
MSG 299	FAST sense	FASTK	66587	NM_023229	transcript	AGCTCAACAGCAAGGTGGTACAGA
MSG 300	FAST antisense	FASTK	66587	NM_023229	transcript	AAATGTTGACTGTGGCCAAGGGTG
MSG 323	HPRT1 sense	HPRT1	15452	NM_013556	transcript	GCGTCGTGATTAGCGATGATGAAC
MSG 324	HPRT1 antisense	HPRT1	15452	NM_013556	transcript	GAGCAAGTCTTTCAGTCCTGTCCA
MSG 418	P1			NT_165760	genomic	TCCTGAGTGCTCAAGCTACC
MSG 419	P2			NT_165760	genomic	GTGTAACTGCTGTCCAGAGG